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DHEC Health Update

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Updated Guidance for Healthcare Providers: Chikungunya Virus Infections

Summary

On December 7, 2013, the World Health Organization (WHO) reported the first local (autochthonous) transmission of chikungunya virus in the Americas, which occurred on the Caribbean island of Saint Martin. Since that time, local transmission of chikungunya has spread throughout the islands of the Caribbean. The Pan American Health Organization (PAHO) reports that as of July 6, 2014, over 260,000 chikungunya cases have been detected, including 21 deaths.

In the United States, as of July 10, 2014, 28 states have detected 154 imported cases of chikungunya associated with this outbreak. South Carolina has confirmed two imported cases of chikungunya.

Recommendations for Health Care Providers

- Chikungunya infection should be considered in patients with acute onset of fever and
 polyarthralgias, especially those who have recently traveled to areas where transmission is
 occurring.
- Dengue infection should also be considered in patients, who have recently traveled to a locale known to have currently circulating dengue virus, as the symptoms for both conditions can be similar. Dengue should be ruled out to aid in clinical management for improved patient outcomes.
- Healthcare providers should report suspected chikungunya cases to DHEC to facilitate diagnosis and to mitigate the risk of local transmission.

Laboratory Testing:

- Laboratory diagnosis is accomplished by testing serum or other bodily fluids (excluding CSF) to detect virus, specific viral antigen, viral nucleic acid, or virus-specific IgM and neutralizing antibodies.
- Accuracy of specific laboratory tests is dependent on the time that has elapsed between onset of symptoms and sample collection.
- Providers should contact DHEC, Division of Acute Disease Epidemiology (DADE), to request information on laboratory testing of suspected chikungunya cases. Call (803) 898-0861, and ask to speak to the Medical Consultant On-Call.

Background

Chikungunya virus is a mosquito-borne alphavirus transmitted primarily by *Aedes aegypti* and *Aedes albopictus* mosquitoes. Humans are the primary reservoir during epidemics. Earlier outbreaks have been documented in Africa, Southern Europe, Southeast Asia, the Indian subcontinent, and islands in the Indian and Pacific Oceans. Prior to the Caribbean outbreak, the only chikungunya cases identified in the Americas were in travelers returning from those endemic areas.

Map of countries and territories where chikungunya cases have been reported: http://www.cdc.gov/chikungunya/geo/index.html

Clinical Presentation

Approximately 3%-28% of people infected with chikungunya virus will remain asymptomatic. For those who develop symptoms, the incubation period for infection is typically 3–7 days (range, 2–12 days). The most common clinical findings are acute onset of fever (temperature typically higher than 102° F [39°C]) and severe joint pain or stiffness. Joint pains are severe, and may be debilitating. They are usually symmetric and occur most commonly in hands and feet, but they can affect more proximal joints. Other symptoms may include headache, myalgia, rash, nausea, vomiting, and fatigue. Persons at risk for more severe disease include neonates exposed intrapartum, adults over 65 years, and persons with underlying medical conditions (e.g., hypertension, diabetes, or cardiovascular disease).

It is difficult to distinguish chikungunya and dengue based on clinical findings alone. Patients with suspected chikungunya should be managed as dengue until dengue has been ruled out.

Treatment

No specific antiviral treatment is available for chikungunya. Treatment is generally palliative and can include rest, fluids, and use of analgesics and antipyretics. Use acetaminophen or paracetamol for initial fever and pain control. If the patient may have dengue, do not use aspirin or other NSAIDs until they have been afebrile ≥48 hours and have no warning signs for severe dengue.

Prevention

No vaccine or medication is available to prevent chikungunya. The best way to prevent chikungunya virus infection is to avoid mosquito bites. Air conditioning or screens on windows/doors may decrease indoor exposure to mosquitoes. Use insect repellents and wear long sleeves/pants when outdoors. Drain or empty all outdoor containers with standing water on a regular basis.

People at increased risk for severe disease should consider not traveling to areas with ongoing chikungunya outbreaks.

People infected with chikungunya or dengue should be protected from further mosquito exposure during the first seven (7) days of illness to prevent other mosquitoes from becoming infected with these viruses, thus reducing the risk of local transmission.

For More Information

- General information about chikungunya virus and disease: http://www.cdc.gov/chikungunya/
- Chikungunya information for clinicians: http://www.cdc.gov/chikungunya/pdfs/CHIKV_Clinicians.pdf
- Protect Yourself from Mosquito Bites: http://www.scdhec.gov/HomeAndEnvironment/Insects/Mosquitoes/ProtectYourselfFromBites/
- Travel notices related to chikungunya virus: http://wwwnc.cdc.gov/travel/notices/watch/chikungunya-saint-martin
- Dengue clinical management guidelines: http://whqlibdoc.who.int/publications/2009/9789241547871_eng.pdf

DHEC contact information for reportable diseases and reporting requirements

Reporting of diseases is consistent with South Carolina Law requiring the reporting of diseases and conditions to your state or local public health department. (State Law # 44-29-10 and Regulation # 61-20) as per the DHEC 2014 List of Reportable Conditions available at: http://www.scdhec.gov/Library/CR-009025.pdf

Federal HIPAA legislation allows disclosure of protected health information, without consent of the individual, to public health authorities to collect and receive such information for the purpose of preventing or controlling disease. (HIPAA 45 CFR §164.512).

Mail or call reports to the Epidemiology Office in each Public Health Region.

LOW COUNTRY PUBLIC HEALTH REGION

Berkeley, Charleston, Dorchester 4050 Bridge View Drive, Suite 600

N. Charleston, SC 29405 Phone: (843) 953-0043 Fax: (843) 953-0051

Nights / Weekends: (843) 441-1091

Beaufort, Colleton, Hampton, Jasper

219 S. Lemacks Street Walterboro, SC 29488 Phone: (843) 549-1516 Fax: (843) 549-6845

Nights / Weekends: (843) 441-1091

Allendale, Bamberg, Calhoun, Orangeburg

932 Holly Street Holly Hill, SC 29059 Phone: (803) 300-2270 Fax: (843) 549-6845

Nights / Weekends: (843) 441-1091

MIDLANDS PUBLIC HEALTH REGION

Kershaw, Lexington, Newberry, Richland

2000 Hampton Street Columbia, SC 29204 Phone: (803) 576-2749 Fax: (803) 576-2993

Nights / Weekends: (888) 801-1046

Chester, Fairfield, Lancaster, York

PO Box 817

1833 Pageland Highway Lancaster, SC 29720 Phone: (803) 286-9948 Fax: (803) 286-5418

Nights / Weekends: (888) 801-1046

Aiken, Barnwell, Edgefield, Saluda

222 Beaufort Street, NE Aiken, SC 29801 Phone: (803) 642-1618 Fax: (803) 643-8386

Nights / Weekends: (888) 801-1046

<u>PEE DEE PUBLIC HEALTH REGION</u> Chesterfield, Darlington, Dillon, Florence,

Marlboro, Marion

145 E. Cheves Street Florence, SC 29506 Phone: (843) 661-4830 Fax: (843) 661-4859

Nights / Weekends: (843) 915-8845

Clarendon, Lee, Sumter

PO Box 1628

105 North Magnolia Street Sumter, SC 29150 Phone: (803) 773-5511 Fax: (803) 775-9941

Nights/Weekends: (843) 915-8845

Georgetown, Horry, Williamsburg

1931 Industrial Park Road Conway, SC 29526-5482 Phone: (843) 915-8804 Fax: (843) 915-6502

Nights/Weekends: (843) 915-8845

UPSTATE PUBLIC HEALTH REGION

Anderson, Oconee

220 McGee Road Anderson, SC 29625 Phone: (864) 260-5801 Fax: (864) 260-5623

Nights / Weekends: (866) 298-4442

Abbeville, Greenwood, Laurens, McCormick

1736 S. Main Street Greenwood, SC 29646 Phone: (864) 227-5947 Fax: (864) 953-6313

Nights / Weekends: (866) 298-4442

Cherokee, Greenville, Pickens

PO Box 2507 200 University Ridge Greenville, SC 29602-2507 Phone: (864) 372-3133 Fax: (864) 282-4373

Nights / Weekends: (866) 298-4442

UPSTATE PUBLIC HEALTH REGION

(continued)

Spartanburg, Union

PO Box 2507 200 University Ridge Greenville, SC 29602-2507 Phone: (864) 372-3133

Fax: (864) 282-4373

Nights / Weekends: (866) 298-4442

DHEC Bureau of Disease Control

Division of Acute Disease Epidemiology 1751 Calhoun Street

Box 101106 Columbia, SC 29211 Phone: (803) 898-0861 Fax: (803) 898-0897

Nights / Weekends: 1-888-847-0902



South Carolina Department of Health and Environmental Control

www.scdhec.gov

Categories of Health Alert messages:

Health Alert Conveys the highest level of importance; warrants immediate action or attention.

Health Advisory Health Update Info ServiceProvides important information for a specific incident or situation; may not require immediate action.

Provides updated information regarding an incident or situation; unlikely to require immediate action.

Provides general information that is not necessarily considered to be of an emergent nature.